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Fig. 1

Photographs of the electrophoresis gels obtained in the RFLP analysis  
of BASB019

Fig. 1A

P6 AcII

2931 2905 2907 2909 2911  
25bp 2904 2906 2908 2910

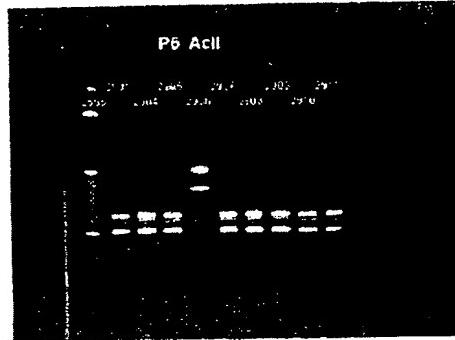


Fig. 1B

P6 AcII

2912 2926 2956 2969  
25bp 2913 2931 2960 2975

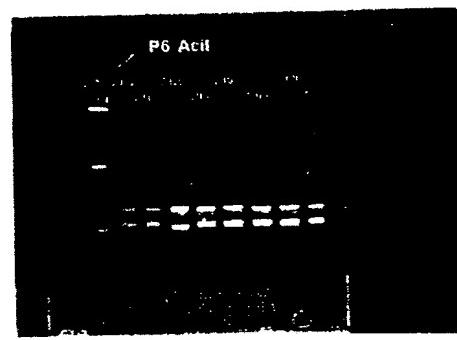


Fig. 1C

P6 AluI

2931 2905 2907 2909 2911  
25bp 2904 2906 2908 2910

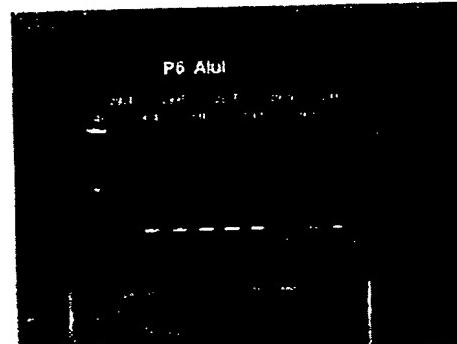


Fig. 1D

P6 AluI

2912 2926 2956 2969  
25bp 2913 2931 2960 2975

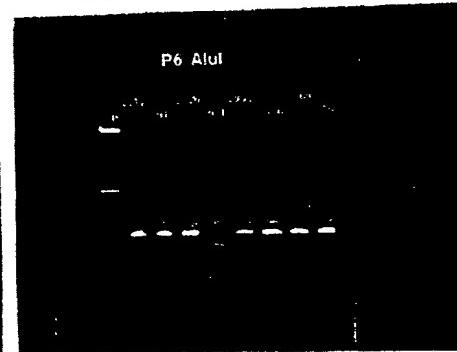


Fig. 1E

P6 BbvI

2931 2905 2907 2909 2911  
25bp 2904 2906 2908 2910

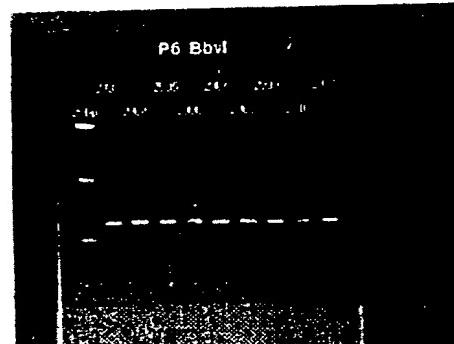
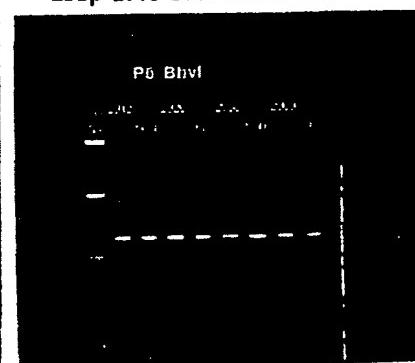


Fig. 1F

P6 BbvI

2912 2926 2956 2969  
25bp 2913 2931 2960 2975



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**Fig.1 (cont)**

Fig. 1G  
P6 Maell

25bp 2931  
2904 2905  
2906 2907  
2908 2909  
2910 2911

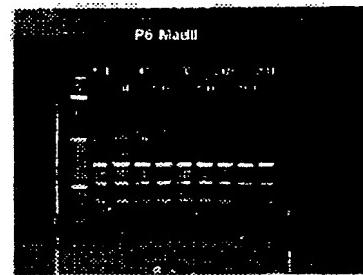


Fig. 1H  
P6 Maelli

25bp 2912  
2913 2926  
2931 2956  
2960 2969  
2975



Fig. 1I  
P6 Msel

25bp 2931  
2904 2905  
2906 2907  
2908 2909  
2910 2911

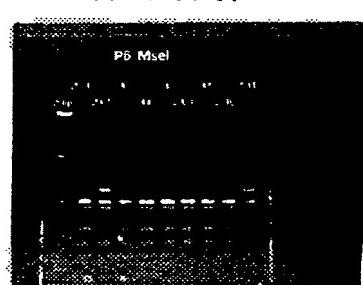


Fig. 1J  
P6 Msel

25bp 2912  
2913 2926  
2931 2956  
2960 2969  
2975

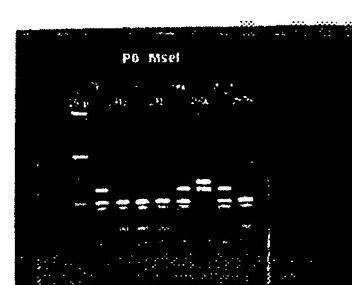


Fig. 1K  
P6 RsaI

25bp 2931  
2904 2905  
2906 2907  
2908 2909  
2910 2911

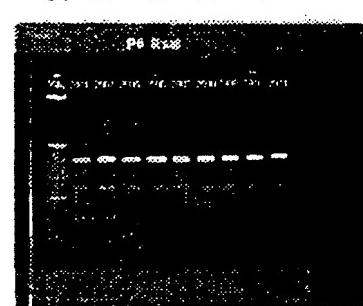
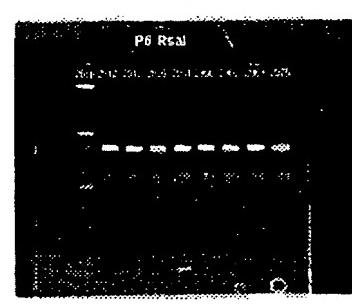


Fig. 1L  
P6 RsaI

25bp 2912  
2913 2926  
2931 2956  
2960 2969  
2975





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**Figure 2A Alignment of the BASB019 polynucleotide sequences.**  
Identity to SeqID No:1 is indicated by a dot.

\* 20 \* 40 \*

Seqid1 : ATGATGTTACATATTCAAATTGCCGCCGCTGCCGCCGCTTATCGGTACT  
: 50

Seqid3 : .....  
: 50

Seqid5 : .....  
: 50

Seqid7 : .....T.....  
: 50

60 \* 80 \* 100

Seqid1 : AACTTTATGACAGGCTGTGCCAATAATCAACAAGTCAAGTTATGGTTG  
: 100

Seqid3 : .....  
: 100

Seqid5 : .....  
: 100

Seqid7 : .....  
: 100

\* 120 \* 140 \*

Seqid1 : CTCCTAACGCACCCACAGGTTACACTGGGGTTATCTATACTGGTGTTGCA  
: 150

Seqid3 : .....  
: 150

Seqid5 : .....  
: 150

Seqid7 : .....G.....G....C.....C.....  
: 150



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Fig. 2B

160 \* 180 \* 200

Seqid1 : CCTTTGGTAGATAATGATGAGACCGTTAAGGCTCTGGCAAGCAAGCTACC  
: 200  
Seqid3 : .....A.....C.....  
: 200  
Seqid5 : .....TA.C...A..T.....C.....  
: 200  
Seqid7 : .....C.....T.....C.....  
: 200

\* 220 \* 240 \*

Seqid1 : CAGTTGGTTATTTGACTTGATTCTGATGAGATTAAACCGCAAGCTG  
: 250  
Seqid3 : .....  
: 250  
Seqid5 : .....  
: 250  
Seqid7 : .....  
: 250

260 \* 280 \* 300

Seqid1 : CTGCCATCTAGACGAACAAGCACAATTTAACCAATCAAACAGCT  
: 300  
Seqid3 : .....  
: 300  
Seqid5 : .....  
: 300  
Seqid7 : .....  
: 300



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Fig. 2C

	*	320	*	340	*
Seqid1 :	CGTGTGTTGGTGCAGGTACCGATGAGCGTGGTAGTCGTGAGTATAA				
:	350				
Seqid3 :	.....				
:	350				
Seqid5 :	.....				
:	350				
Seqid7 :	.....				
:	350				

	360	*	380	*	400
Seqid1 :	TATGTCACTGGGGGAACGCCGTGCGGTGGCGGTACGCAACTATTGCTTG				
:	400				
Seqid3 :	.....T.....				
:	400				
Seqid5 :	.....				
:	400				
Seqid7 :	.....				A
:	400				

	*	420	*	440	*
Seqid1 :	GTAAAGGCATTAATCAAGCCAGCGTTGAGATTATCAGTTTGGTGAAGAA				
:	450				
Seqid3 :	.....				
:	450				
Seqid5 :	.....				
:	450				
Seqid7 :	....C.....				
:	450				



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Figs. 2D

460 \* 480 \* 500

Seqid1 : CGCCCTATCGCATTGGCACAAATGAAGAACATGGTCACAAAATCGTCG  
: 500  
Seqid3 : .....  
: 500  
Seqid5 : .....  
: 500  
Seqid7 : .....  
: 500

\*

Seqid1 : TGCTGAACTGTCTTATTAA : 519  
Seqid3 : ..... : 519  
Seqid5 : ..... : 519  
Seqid7 : ..... : 519



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Figure 3A  
Alignment of the BASB019 polypeptide sequences.  
Identity to SeqID No:2 is indicated by a dot.

\* 20 \* 40 \*

Seqid2 : MMLHIQIAAAAALSVLT FMTGCANKSTSQVMVAPNAP TGVTGVIYTGVA  
: 50  
Seqid4 : .....  
: 50  
Seqid6 : .....  
: 50  
Seqid8 : ..... A .....  
: 50

60 \* 80 \* 100  
Seqid2 : PLVDNDETVKALASKLPSLVYFDFDSDEIKPQAAILDEQAQFLTTNQTA  
: 100  
Seqid4 : ..... T .....  
: 100  
Seqid6 : ..... I.T....T.....  
: 100  
Seqid8 : ..... T .....  
: 100

\* 120 \* 140 \*  
Seqid2 : RVLVAGHTDERGSREYNMSLGERAVAVRNYLLGKGINQASVEIISFGEE  
: 150  
Seqid4 : .....  
: 150  
Seqid6 : .....  
: 150  
Seqid8 : ..... S .....  
: 150



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Fig. 3B

160 \*

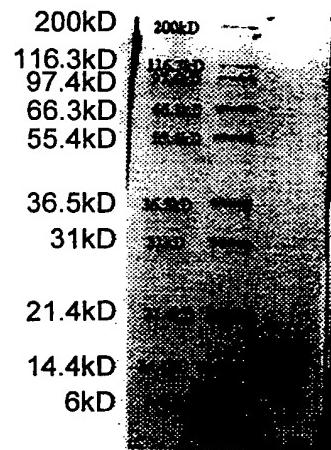
Seqid2 : RPIAFGTNEEAWSQNRRRAELSY : 172  
Seqid4 : ..... : 172  
Seqid6 : ..... : 172  
Seqid8 : ..... : 172

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## Fig.4

Coomasie stained SDS-PAGE of BASB019 protein

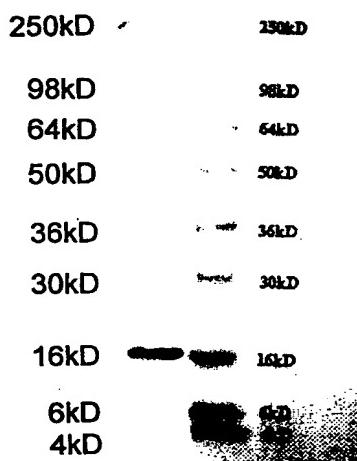




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## Fig.5

Western-blot with tetra-His antibody of BASB019 protein





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## Fig.6

Western-blot of purified recombinant BSAB019 protein probed with the corresponding anti-recombinant protein sera at 1:200

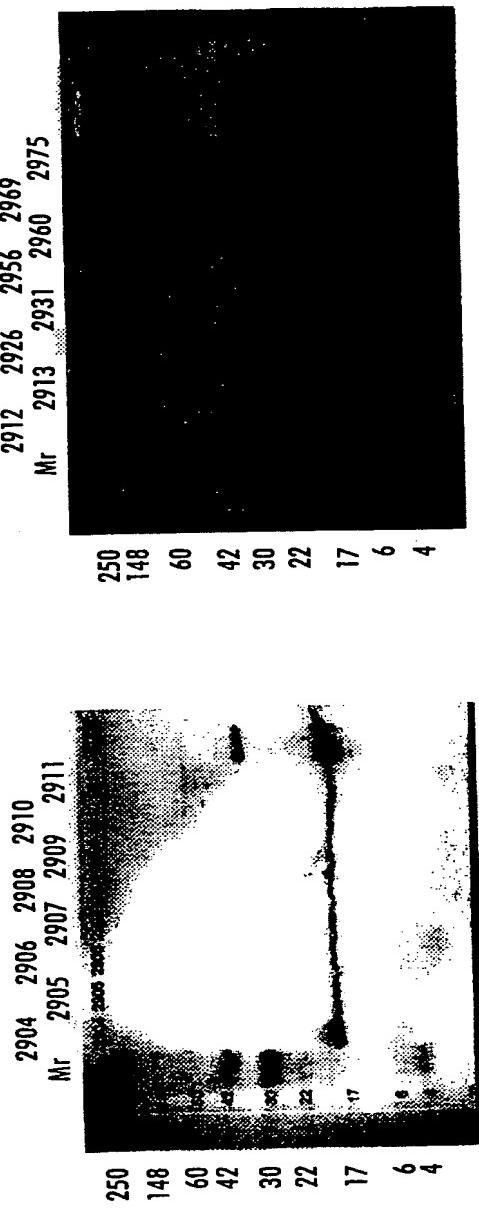
kDa	1	2	3	4	5	Lanes
250	-	-	-	-	-	1 MW Marker
148	-	-	-	-	-	2 CovRb 252 pre
60	-	-	-	-	-	3 CovRb 252 post
42	-	-	-	-	-	4 CovRb 254 pre
30	-	-	-	-	-	5 CovRb 254 post
22	-	-	-	-	-	
17	-	-	-	-	-	
6	-	-	-	-	-	
4	-	-	-	-	-	



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**Fig.7**

Western blot of whole cell lysates of 16 strains of *M. Catarrhalis* using pooled sera against the recombinant BASB019 protein. Sera was diluted 1:2000





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## Fig.8

Western-blot of purified recombinant BSAB019 protein probed with pooled human convalescent sera at 1:100

kDa	1	2	3	4	5	Lanes
250						1 MW Marker
148						2 SBRb 302 pre
60						3 SBRb 302 post
12						4 SBRb 303 pre
30						5 SBRb 303 post
22						
17						
6						
4						